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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/030,738	04/15/2002	Teppo J Nurminen	MED 2 1115	8284
75	590 09/05/2003			
Fay Sharpe Fagan Minnich & McKee 1100 Superior Avenue Seventh Floor Cleveland, OH 44114-2518			EXAMINER	
			KIM, SUN U	
			ART UNIT	PAPER NUMBER
			1723	
			DATE MAILED: 09/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Disposition of Claims ## Office Action Summary 10/030,738			Application No.	Applicant(s)				
John Kim 1723 John Kim 1723 John Kim 1723 Priod for Reply			10/030,738	NURMINEN ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Priod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Education of an many be available under the provision of 3 CFR 1-130(a). In or event, however, may a reply be timely filled after 50 (6) MCNTHS from the mailing date of micromominication, reply within the statutory minimum of think (0) days will be considered timely. If NO period for reply is specified above, the mailman issuitory period will apply and vill expire 10(b) (MONTHS from the mailing date of this communication. Falletine to reply within the set or extended period for reply will, by status, cause the application to become ANANOWED (3) uses of this communication. This action is FINAL. 2b This action is expired the mailing date of the communication, even if fillingly filled, may reduce any Status 1) Responsive to communication(s) filled on 15 April 2002. 2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 c.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1:17 Is/are pending in the application. 4a) Of the above claim(s)	Office Act	ion Summary	Examiner	Art Unit				
P ridd for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time tray be available under the provisions of 31 CFR 1.158(a). In no event, however, may a roply be limitely filled Extensions of time tray be available under the provisions of 31 CFR 1.158(a). In no event, however, may a roply be limitely filled Extensions of time tray be available under the provisions of 31 CFR 1.158(a). In no event, however, may a roply be limitely filled If the particle for reply is specified solves. But maximum statutory period will apply and will apple 181 (6) MONTHS from the maining date of this communication. Failure to reply specified above. But maximum statutory period will apply and will apple 181 (6) MONTHS from the maining date of this communication. Failure to reply within the active active and provision for all or active to remaining date of this communication. Failure to reply within the active active to communication (s) filled on 15 April 2002 2a) This action is FINAL. 2b) Responsive to communication (s) filled on 15 April 2002 2a) This action is FINAL. 2b) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is fare ended. 4) Claim(s) is fare allowed. 6) Claim(s) is and 5-17 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is a subject to the frawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filled on is: a) accepted or b) objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The other of the certified copies of the priority document								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.136(a). In one-serth, however, may a reply be limitly filed after 5X (6) MCNTHS from the mailing date of this communication. If the purpose of many by eximited above is these than thing (6) days, a negly within the station y minimum of thiny (6) days will be considered timely. If the purpose of many by eximited above is these than thing (60) days, a negly within the station (7) (6) MCNTHS from the mailing date of this communication. Failure to reply within the set or extended pended for reply will, by statute, cause the application to become ABANDONED (68 U.S.C. § 133). Any reply received by the Official set than three minimal after the mailing date of this communication, even if timely filed, may reduce any owned plant term registration is a condition for allowance and the communication, even if timely filed, may reduce any owned plant term registration is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s)								
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1. The disclosure is objected to because of the following informalities:

Following reference to claims in the specification should be removed:

- -Page 3, line 21 refers to claim 1.
- -Page 4, line 23 refers to claim 6.
- -Page 4, line 32 refers to claim 1.

Appropriate correction is required.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 3. Claims 9-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claimed subject matter in clams 9 and 15 including an inner seal or first seal in fluid communication with the feed liquid flow and an outer seal or second seal in fluid communication with the permeate flow is not described in the specification. Claims 10-14 depend on claim 9. Claims 16-17 depend on claim 15.
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-3 and 5-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 6 are indefinite for failing to particularly point

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out how means of a gasket or a gasket system defines an internal intermediate space connected to outside. Claims 2-3 depend on claim 1. Claims 7-8 depend on claim 5. Furthermore, claims 7-8 claim separate and distinct methods i.e. method of using the filter unit rather than sealing the filter unit.

- 6. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter:
 U.S. Patent No. 4,547,289 (Okano et al) teaches a hollow fiber type filtering unit comprising two
 O-rings (15) i.e. gaskets for sealing joint between the filtering elements and the housing.

 Between the gaskets, there is an intermediate space (16) connected to the outside of the filtering
 unit. A measuring apparatus can be provided to indicate a leak (see figures 1-9; col. 4, line 19 –
 col. 5, line 24). However, Okano et al does not suggest above sealing gaskets with an
 intermediate space in known crossflow ceramic membrane filtering unit having filtering
 elements partly coated with a filtering membrane.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 6,361,575 and 5,545,242 teach sealing gaskets with an intermediate space in a depth type filter. U.S. Patent No. 5,254,250 teaches rotary disc type filter for crossflow filtration.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM 3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response is (703) 872-9306.

When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

John Kim
Primary Examiner
Art Unit 1723

J. Kim August 28, 2003